

## EAST Search History

| Ref # | Hits    | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|---------|--|---|------------------|---------|---------------------|
| L1    | 2340    | ((center surround) adj detector\$1)  | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2009/05/18<br>13:51 |
| L2    | 1       | ((opponent adj (center surround)) adj detector \$1)  | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2009/05/18<br>13:52 |
| L3    | 1       | ((opponent adj (center surround)) adj detector \$1)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/05/18<br>13:52 |
| L4    | 1       | 10/730189  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/05/18<br>13:55 |
| L6    | 5       | (US-20040037462-\$).<br>did. or (US-6912307-\$<br>or US-7298908-\$ or US-<br>7173662-\$ or US-<br>7067784-\$).did.                   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>13:58 |
| L7    | 0       | 6 and oscillat\$3  | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2009/05/18<br>13:58 |
| L8    | 7       | (oscillat\$3 near2<br>(image frame)) and<br>(filter\$3 with (spatio-<br>temporal (spatial near2<br>temporal) (space near2<br>time))) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/05/18<br>14:00 |
| L9    | 91      | 348/351.ccls.  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:05 |
| L10   | 68      | 348/352.ccls.  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:08 |
| L11   | 66      | 10 not 9   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:08 |
| L12   | 112     | 348/353.ccls.  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:11 |
| L13   | 5341517 | 12 no (9 10)   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:11 |
| L14   | 105     | 12 noT (9 10)  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:11 |
| L15   | 105     | 12 not (9 10)  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/05/18<br>14:11 |

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| L16 | 146 | 348/354.ccls.   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:28 |
| L17 | 113 | 16 not(9 10 12)   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:28 |
| L18 | 54  | 348/355.ccls.   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:31 |
| L19 | 36  | 18 not (9 10 12 16)   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:31 |
| L20 | 97  | 348/356.ccls.   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:32 |
| L21 | 55  | 20 not (9 10 12 16 18)  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/18<br>14:33 |
| L22 | 5   | ("5500904"  <br>"5555324"   "5771312"<br>  "6438264").PN. OR<br>("6912307").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>14:34 |
| L23 | 9   | ("5144442"  <br>"5247366"  <br>"5609978").PN. OR<br>("5771312").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>14:34 |
| L24 | 8   | ("20020167615"  <br>"20030002059"  <br>"5771311"   "5771312"<br>  "5909291"  <br>"5963201"  <br>"6668078").PN. OR<br>("6931152").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>14:36 |
| L25 | 42  | ("4086616"  <br>"4337044"   "4626905"<br>  "4672439"  <br>"4683496"   "4685071"<br>  "4724354"  <br>"4751571"   "5001558"<br>  "5035472"  <br>"5040064"   "5049995"<br>  "5051821"  <br>"5083204"   "5162647"<br>  "5214503"  <br>"5220620"  <br>"5233183").PN. OR<br>("5555324").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>14:55 |
| L26 | 5   | 25 and (oscillat\$3 vibrat<br>\$3 undulat\$3 fluctuat<br>\$3 pendulat\$3 swing\$3<br>sway\$3)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>15:00 |
| L27 | 1   | "5555324".pn.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>15:28 |
| L28 | 1   | 27 and (motion mov<br>\$3)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>15:28 |
| L29 | 0   | 27 and (induc\$3 adj<br>oscillat\$3)  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/18<br>15:28 |

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| L30 | 0    | 27 and (oscillat\$3)  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/05/18<br>15:28 |
| L31 | 1    | 27 and (oscillat\$4)  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/05/18<br>15:29 |
| L32 | 5    | (andrew near1 zador).<br>in.  | US-PGPUB;<br>USPAT  | OR | OFF | 2009/05/18<br>15:30 |
| L33 | 8    | (andrew near1 zador).<br>in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:30 |
| L34 | 1929 | (center near1<br>surround) "center-<br>surround" "center/<br>surround"                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:32 |
| L35 | 461  | 34 and (oscillat\$3 vibrat<br>\$3 undulat\$3 fluctuat<br>\$3 pendulat\$3 swing\$3<br>sway\$3) | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/05/18<br>15:32 |
| L36 | 475  | 34 and (oscillat\$3 vibrat<br>\$3 undulat\$3 fluctuat<br>\$3 pendulat\$3 swing\$3<br>sway\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:33 |
| L37 | 3    | 36 and (filter\$3 with<br>motion\$1)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:34 |
| L38 | 671  | 34 and imag\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:34 |
| L39 | 181  | 38 and (oscillat\$3 vibrat<br>\$3 undulat\$3 fluctuat<br>\$3 pendulat\$3 swing\$3<br>sway\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:34 |

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| L40 | 1 | ((center near1 surround) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (imag\$3 and (filter\$3 with motion\$1) ).dm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:44 |
| L41 | 1 | ((center near1 surround) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (imag\$3 ).dm.                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:44 |
| L42 | 4 | ((center near1 surround) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (imag\$3 frame) ).dm.                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:44 |
| L43 | 1 | ((center\$1 adj1 surround3) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (imag\$3 ).dm.                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:45 |
| L44 | 1 | ((center\$1 adj1 surround3) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (motion\$1 with filter\$1) ).dm.           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:45 |
| L45 | 1 | ((center\$1 adj1 surround3) "center-surround" "center/surround") and (oscillat\$4 vibrat\$4 undulat\$4 fluctuat\$4 pendulat\$3 swing\$3 sway\$3) and (motion\$1 with filter\$1)                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/18<br>15:45 |
| S1  | 0 | fovix.as.   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>10:25 |

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| S2  | 5    | (andrew near2 zador).<br>in.   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>10:25 |
| S3  | 83   | 348/351.ocls.  | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:09 |
| S4  | 1    | sinusoid adj chirp   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:10 |
| S5  | 8154 | chirp  | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:10 |
| S6  | 78   | oscillation with chirp   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:10 |
| S7  | 1    | S3 and chirp   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:18 |
| S8  | 50   | center/surround  | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>12:26 |
| S9  | 24   | (US-20050206735-\$ or<br>US-20050185057-\$ or<br>US-20060082658-\$ or<br>US-20060017815-\$ or<br>US-20030076421-\$ or<br>US-20050204640-\$ or<br>US-20050157287-\$ or<br>US-20020054217-\$).<br>did. or (US-6930708-\$<br>or US-6781622-\$ or US-<br>5867213-\$ or US-<br>5640222-\$ or US-<br>6473120-\$ or US-<br>5402171-\$ or US-<br>7224893-\$ or US-<br>5748391-\$ or US-<br>7286164-\$ or US-<br>7123292-\$ or US-<br>7269344-\$ or US-<br>6424372-\$ or US-<br>5969757-\$ or US-<br>5889553-\$ or US-<br>6678000-\$ or US-<br>6573930-\$).did. | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>15:24 |
| S10 | 0    | S9 and chirp   | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/28<br>15:25 |
| S11 | 100  | oscillation with chirp   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:28 |
| S12 | 3245 | (imag\$3 camera) and<br>chirp  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:32 |

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| S13 | 419 | (imag\$3 camera) and ((oscillat\$3 vibrat\$3) same chirp) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:33 |
| S14 | 20  | chirp and ((pixel adj shift) (micro\$1scan\$4))           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:38 |
| S15 | 8   | 348/207.99-376.ccls. and chirp\$3                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:42 |
| S16 | 343 | (chirp\$4 and imag\$3). ab.                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:45 |
| S17 | 79  | (chirp\$4 and imaging). ab.                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:46 |
| S18 | 13  | (oscillat\$3 and imaging).ab. and chirp \$4               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>15:48 |
| S19 | 16  | (spatial near1 light near1 modulator) same chirp          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>16:38 |
| S20 | 27  | (spatial near1 light near1 modulator) same chirp\$3       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>16:38 |

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| S21 | 1  | 10/730189                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/28<br>17:17 |
| S22 | 26 | (staring near2 (imaging<br>adj system)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/03/31<br>09:28 |
| S23 | 1  | "5,991,456".pn.                         | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/31<br>10:02 |
| S24 | 1  | 10/730424                               | US-PGPUB;<br>USPAT  | OR | OFF | 2008/03/31<br>11:19 |
| S25 | 5  | (andrew near2 zador).<br>in.            | US-PGPUB;<br>USPAT  | OR | OFF | 2008/12/09<br>11:58 |

5/ 18/ 2009 4:12:28 PM

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